

**CLEAN VERSION OF CLAIMS 1, 2, 26, 28, 29, and  
31-40.**

1. (first amendment) A gas centrifuge means operating to separate gases of differing chemical composition and molecular weight by a centrifugal force field, there being vanes associated with said centrifuge means to receive and pass a flowing stream of liquid associated with said gases, with turbine effect.

1-2

2. (first amendment) A gas processing system including a gas centrifuge means operating to separate carbon dioxide from methane by a centrifugal force field, and means to inject a treatment fluid into said system for purposes of gas treatment.

26. (first amendment) A method that includes

a) providing a mixture of gases having carbon dioxide and/or other heavy gases and methane components, and also providing a rotary centrifuge,

1-3

b) operating the rotary centrifuge to separate said components into separate streams,

c) using the separated stream of carbon dioxide and methane to produce torque acting to aid rotation of the centrifuge.

28. (first amendment) The method that includes

a) providing a rotary centrifuge to receive a mixture of gases having carbon dioxide and/or other heavy gases and methane components,

b) operating the rotary centrifuge to separate said components into separate streams,

c) using the separated streams of carbon dioxide and methane to produce torque acting to aid rotation of the centrifuge,

d) and including providing vanes in the centrifuge to receive and pass a flowing fluid stream, associated with said mixture, with turbine effect.

29. (first amendment) A centrifugal gas processing system comprising:

- a) a centrifugal means to separate free liquids from gas, light liquids from heavy liquids, and solids from liquids,
- b) a centrifugal means to extract liquids from said gas by lowering the pressure and temperature and separating the formed liquids from the gas,
- c) a centrifugal means to process said gas thereby to separate heavy gases from light gases,
- d) there being vanes associated with at least one of said centrifugal means to receive and pass a flowing fluid stream with turbine effect.

31. (first amendment) A centrifugal gas processing system comprising:

- a) a centrifugal means to separate free liquids from gas, light liquids from heavy liquids, and solids from liquids,
- b) a centrifugal means to extract liquids from said a) gas by lowering the pressure and

temperature and separating the formed liquids from the gas,

c) there being vanes connected with at least one of said centrifugal means to receive a flowing stream of liquid, with turbine effect.

32. (first amendment) A centrifugal gas processing system comprising in combination:

a) a centrifugal means to extract liquids from gas by lowering the pressure and temperature and separating the formed liquids from the gas,

b) a centrifugal means to process said gas thereby to separate heavy gases from light gases[.],

c) and means to inject a treatment liquid into said system for purposes of gas processing.

33. (first amendment) A centrifugal gas processing system, comprising:

a) a centrifugal means to separate free liquids from gas, light liquids from heavy liquids, and solids from liquids,

- b) a centrifugal means to process said gas thereby to separate heavy gases from light gases,
- c) and means to inject a treatment liquid into said system for purposes of gas processing.

34. (first amendment) A centrifugal gas processing system comprising in combination:

- a) a centrifugal means to extract liquids from gas by lowering the pressure and temperature and separating the formed liquids from the gas,
- b) a centrifugal means to process said gas thereby to separate heavy gases from light gases,
- c) and including means to inject a treatment liquid into said system for purposes of gas treatment.

35. (first amendment) A gas processing system comprising

- a) a centrifugal means to extract liquids from gas by lowering the pressure and temperature and separating the formed liquids from the gas,

- b) means to inject a treatment liquid into said system for purposes of gas treatment,
- c) there being vanes in said centrifugal means to receive and pass a flowing stream of said liquid, with turbine effect.
- B6  
cont.*

36. (first amendment) A gas centrifuge means to receive a fluid stream and operating to separate carbon dioxide from another gas, there being vanes associated with said centrifuge means to receive the fluid stream, with turbine effect, and there being means to inject a treatment fluid to flow into the centrifuge means for purposes of fluid treatment.

37. (first amendment) The combination of claim 5 wherein the heavier gas stream consists essentially of carbon dioxide and the lighter gas stream consists of another gas.

38. (first amendment) The combination of  
claim 6 wherein the heavier gas stream consists  
essentially of carbon dioxide and the lighter gas  
stream consists of another gas.

39. (first amendment) The combination of  
claim 7 wherein the heavier gas stream consists  
essentially of carbon dioxide and the lighter gas  
stream consists of another gas.

40. (first amendment) The combination of  
claim 37 wherein the heavier gas stream consists of  
carbon dioxide, and the lighter gas stream consists of  
methane.